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ART 3:1987**

Patent Claims

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1. A window-winding arrangement (1), in particular for the side pane (2) of a motor vehicle, which comprises a drive means (5) as well as a guide means for the drive and for guiding a pane (2) belonging to the window-winding arrangement, characterised in that the drive means and guide means is designed in a manner such that the drive force for movement is applied onto the pane such that this (4.1; 4.2) independently of its movement direction is always pressed against a certain guide edge (6c) of the guide means.

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2. A window-winding arrangement according to claim 1, characterised in that a first (7.1) and a second (7.2) force engagement point of the drive means (5) is provided on the pane (2) wherein with the drive (4.1) of the drive means in a first direction the first force engagement point (7.1) is loaded greater and with the drive in a second (4.2) direction opposite to the first direction the second force engagement point (7.2) is loaded greater.

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3. A window-winding arrangement according to one of the preceding claims, characterised in that the pane (2) is driven by a linear element (8) belonging to the drive means.

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4. A window-winding arrangement according to claim 3, characterised in that the linear element (8)

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ART 34 /NDT

is a chain, a pull cable, a belt, a toothed belt,
a rack or likewise.

- 5 5. A window-winding arrangement according to one of
the preceding claims characterised in that the
pane (2) is guided in a front or a rear side door
(9) or in a rear door of a motor vehicle.
- 10 6. A window-winding arrangement according to claim
5, characterised in that the vehicle door
comprises an inner part of plastic and/or metal
for carrying parts of the drive means.
- 15 7. A window-winding arrangement according to one of
the preceding claims, characterised in that the
pane (2) on its lower side comprises at least
one, preferably one or two fixation parts (10)
belonging to the pane for moving the pane.
- 20 8. A window-winding arrangement according to claim
7, characterised in that the fixation part (10)
is clipped, clamped, glued and/or screwed to the
remaining pane (2).
- 25 9. A window-winding arrangement according to claim 7
or 8, characterised in that the fixation part
(10) comprises two fastening points for the
linear elements (8), said points being distanced
to one another and representing in each case
30 force engagement points (7.1; 7.2) for opposite
movement directions (4.1; 4.2).
- 35 10. A window-winding arrangement according to one of
the claims 3 to 9, characterised in that the
drive means (5) comprises deflection pieces,

**REPLACED BY
ART 34 AIDT**

designed as rollers (11) or likewise for
deflecting linear elements (8).

- 5 11. A window-winding arrangement according to one of
the claims 5 to 10, characterised in that the
motor vehicle door (9) preferably centrally and
below the window opening (11) comprises a rail
for guiding the fixation part.
- 10 12. A motor vehicle door containing a window-winding
arrangement according to one of the preceding
claims.